

**CIRCUIT FOR REDUCING CURRENT MIRROR MISMATCH DUE TO
GATE LEAKAGE CURRENT**

Yen-Chung T. Chen

ABSTRACT OF THE DISCLOSURE

[036] A current mirror that compensates for the effects of gate current leakage related to quantum mechanical tunneling of electrons. An embodiment of the current mirror of the present invention comprises a first reference current leg, first and second current mirror legs and a load leg. Current compensation devices are operable to provide current compensation components to offset the effects of gate current leakage. In one embodiment of the invention the current compensation components comprise P-type CMOS transistors.